

CLAIMS

- SUB
a₂**
1. A pigmented solventborne paint pack which can be made into a waterborne coating composition which comprises;
 - i) a waterborne pigment dispersion comprising pigment dispersed in water in the presence of a pigment dispersant, the aqueous pigment dispersion itself being in dispersion in
 - ii) a solution in an organic solvent of polymer having functional groups and hydrophilic groups.
 2. A paint pack as claimed in claim 1 in which the functional groups are hydroxyl 10 groups.
 3. A paint pack as claimed in claim 2 in which the polymer has a hydroxyl value of 5 to 500
 4. A paint pack as claimed in claim 3 in which the polymer has a hydroxyl value of 50 to 250.
 - SUB
a₃** 5. A paint pack as claimed in any preceding claim in which the hydrophilic groups are carboxylic acid groups or amine groups.
 6. A paint pack as claimed in claim 5 in which the hydrophilic groups are carboxylic acid groups and the polymer has an acid value of 20 to 250.
 7. A paint pack as claimed in claim 5 in which the hydrophilic groups are amine 20 groups and the polymer has an amine value of 20 to 250.
 - SUB
a₄** 8. A paint pack as claimed in any preceding claim in which the polymer is a vinyl addition polymer, a polyester, a polyurethane, a mixed polyester-polyurethane or an epoxy polymer.
 9. A paint pack as claimed in claim 8 in which the polymer is a vinyl addition 25 polymer, a polyester, a polyurethane or a mixed polyester-polyurethane.

10. A paint pack as claimed in claim 9 in which the polymer is a vinyl addition polymer.

11. A paint pack as claimed in claim 10 in which the polymer has a theoretical glass transition temperature (Fox Tg) of -30 to 80°C.

12. A paint pack as claimed in claim 11 in which the polymer has a theoretical glass transition temperature (Fox Tg) of -10 to 50°C.

SUB 25
13. ~~A paint pack as claimed in any preceding claim in which the polymer has a number average molecular weight as measured by gel permeation chromatography of 700 to 10,000.~~

14. A paint pack as claimed in claim 13 in which the polymer has a number average molecular weight of 1,000 to 4,000.

SUB 26
15. ~~A paint pack as claimed in any one of the preceding claims in which the polymer has an acid value of up to 50.~~

16. A solventborne activated paint pack which comprises the solventborne paint pack as claimed in any one of claims 1 to 14 and a crosslinker which is dissolved in the organic solvent.

17. A solventborne activated paint pack as claimed in claim 16 in which the crosslinker is a phenol formaldehyde, melamine formaldehyde, or polyisocyanate.

18. A solventborne activated paint pack as claimed in claim 17 in which the crosslinker is a polyisocyanate.

SUB C1
19. ~~A waterborne coating composition which comprises a dispersion in an aqueous medium of the solventborne activated paint pack as claimed in claim 16.~~

SUB 27
20. A process for producing a solventborne paint pack which can be made into a pigmented waterborne coating composition, comprising a polymer having hydrophilic groups and functional groups, and a crosslinker for the polymer, comprising the steps of;

- i) forming a solution of the polymer in an organic solvent
- ii) dispersing a waterborne pigment dispersion in the polymer solution.

21. A process for producing a solventborne activated paint pack which can be made into an aqueous coating composition comprising the process of claim 20

and the further step of adding to the solventborne paint pack a crosslinker which is soluble in the organic solvent and forming a solution of the crosslinker in the solvent.

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Sub
~~22. A process for producing an aqueous coating composition which comprises the process of Claim 21 and the further step of emulsifying the solventborne activated paint pack in an aqueous medium.~~

23. A process for coating a substrate which comprises the steps of applying a layer of a waterborne coating composition according to claim 22 to a surface of the substrate and thereafter causing or allowing the layer to cure.

24. A coated article obtainable by the process of claim 23.